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Field Emission and Related Topics

Erwin W. Müller Festschrift Volume

edited by **PAUL H. CUTLER** and **TIEN T. TSONG** (*Guest Editors*), *Department of Physics, Pennsylvania State University, University Park, Pennsylvania, U.S.A.*

Reprinted from **Surface Science, Volume 70.**

1978 xii + 702 pages Price: US \$82.75/Dfl. 190.00 ISBN 0-444-85131-3

This book consists of a collection of papers contributed by many of Professor Erwin W. Müller's colleagues and friends. It contains the original papers as well as review papers on field electron and field ion emission, and related fields.

Professor Müller's outstanding and varied contributions to Surface Science are well known. He conceived the field emission microscope, an indispensable tool for the study of field emission, surface migration and chemisorption. Extending the experimentally accessible field strength beyond several hundred million volts/cm, he discovered the physical effects of field desorption, field evaporation and field ionization. His invention of the field ion microscope enabled one, for the first time, to see atoms as building blocks of a crystal lattice. By connecting the microscope via a probe-hole to a time-of-flight mass spectrometer, he created a microanalytical tool of ultimate, single atom sensitivity. In 1972 Müller operated the first field desorption microscope, and introduced "time gating" of the field desorption microscope for overall surface analysis.

In discussing the above contributions made by Professor Müller to surface science, the papers in this volume provide a testimony of his prolific and often extraordinary scientific achievements. Surface scientists will welcome the book's publication.

CONTENTS: Editors' Foreword. Foreword by R. Gomer. Papers were contributed by the following authors: M. Drechsler, R. Gomer, S. G. Christov, A. Modinos, N. Rihon, N. Kar, M. J. G. Lee, R. Reifengerger, Ch. Kleint, T. Radón, R. Meclowski, R. Blaszcyszyn, L. W. Swanson, A. Rabinovich, I. Brodie, M. Landolt, M. Campagna, T. T. Tson, K. D. Rendulic, R. G. Forbes, K. Sendecka, S. V. Krishnaswamy, S. B. McLane, K. Faulian, E. Bauer, Z. Knor, O. Nishikawa, A. R. Saadat, R. J. Walko, H. D. Beckey, K. Levsen, F. W. Röllgen, H. -R. Schulten, D. L. Cock, J. H. Block, P. Sudraud, J. Van der Walle, C. Colliex, R. Castaing, S. Kapur, H. C. Eaton, R. J. Bayuzick, S. S. Brenner, S. Nakamura, T. Kuroda, A. J. Watts, B. Ralph, M. K. Miller, P. A. Beaven, R. J. Lewis, G. D. W. Smith, G. L. Kellogg, P. Cowan, D. W. Bassett, P. R. Webber, D. N. Seidman, D. G. Brandon, M. Talianker, L. Gal-Or, Y. Komen, F. O. Goodman, M. W. Cole, D. R. Frankl, T. Sakurai, H. D. Hagstrum, F. Delanaye, A. Lucas, G. D. Mahan, M. L. den Boer, P. I. Cohen, P. L. Park, J. A. Appelbaum, G. A. Baraff, D. R. Hamann and C. B. Duke. Author Index. Subject Index.

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